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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/748,326	12/26/2000	Hiroyuki Muramatsu	S004-4175	9113	
7.	590 09/12/2003				
ADAMS & WILKS 31st Floor 50 Broadway			EXAMINER		
			BUDD, MARK OSBORNE		
New York, NY	10004		ART UNIT	PAPER NUMBER	
			2834		
			DATE MAILED: 09/12/2003	DATE MAILED: 09/12/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	<u> </u>			
Office Action Summary		09/748,326	MURAMATSU ET	AL.			
		Examiner	Art Unit				
		Mark Budd	2834				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status 4 \⊠	Deprending to communication/o) filed on 24.4						
1)[\bigsilon]	Responsive to communication(s) filed on <u>24 J</u>						
2a)⊠	,	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) <u>1-7,11-13,15-17 and 19-35</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>1-7,11-13,15-17 and 19-21</u> is/are allowed.							
6)⊠ Claim(s) <u>22-28,31,33 and 35</u> is/are rejected.							
7)⊠ Claim(s) <u>29,30,32 and 34</u> is/are objected to.							
·	Claim(s) are subject to restriction and/or	election requirement					
	on Papers	orodion roquiroment.					
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No Patent Application (PT	(s) O-152)			

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 22-24, 27, 33 and 35 are rejected under 35 U.S.C. 102(a) as being anticipated by Freeman.

Note figure 2 of Freeman shows base plate (epoxy #42) and backing (plate 32).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 25, 26, 28 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Freeman.

As noted above, Freeman teaches the basic pulse detector structure but does not use some specific materials, doesn't use a separate sealing material between the plate and the backing and doesn't show an electrode disposed on the plate. However, it has long been held that selection from among known suitable materials is within the skill expected of the routineer. Likewise the omission of an element with the consequent loss of its function has been placed within the skill expected of the routineer. Thus to select epoxy and silicone and provide an adhesive in lieu of direct bonding between the plate and backing would have been obvious to one of ordinary skill in

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the art. Electrodes are necessary for an operable device, whether they are located on the piezo element or the support is irrelevant as long as the needed electrical path is provided.

Claims 29, 30, 32 and 34 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 1-7, 11-13, 15-17 and 19-21 are allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Budd/ds

09/05/03

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